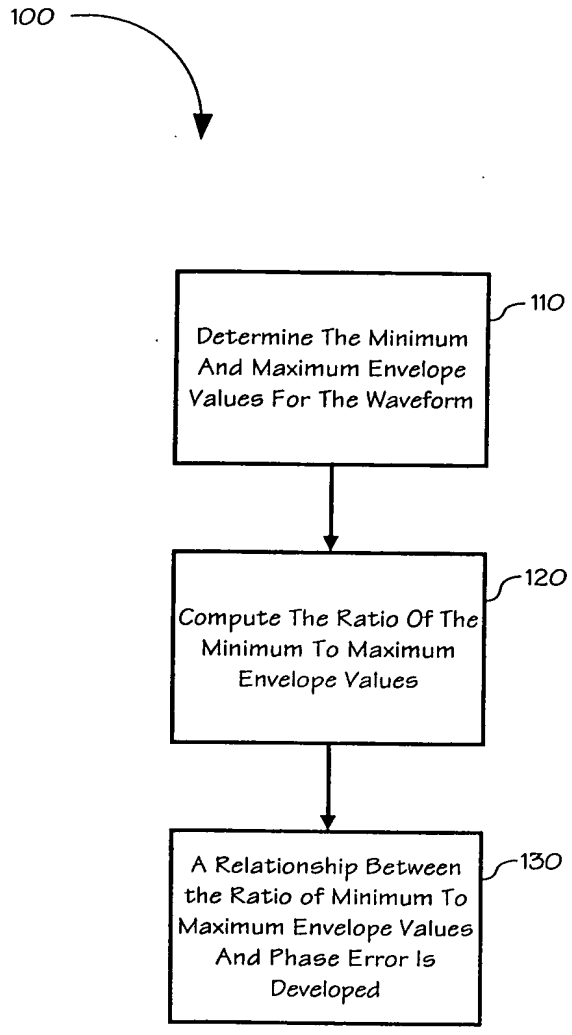
100
Determine The Minimum And Maximum Envelope Values For The Waveform
110
Compute The Ratio Of The Minimum To Maximum Envelope Values
120
A Relationship Between the Ratio of Minimum To Maximum Envelope Values And Phase Error Is Developed
130

FIG. 1

R =

	ϕ	emx	emn	ratio	Θ	envMx(Θ)	envMn(Θ)
	0	1	2	3	4	5	6
0	0	1	1	1	0	1	1
1	1	1.009	0.991	0.983	44.5	1.009	0.991
2	2	1.017	0.982	0.966	44	1.017	0.982
3	3	1.026	0.973	0.949	43.5	1.026	0.973
4	4	1.034	0.964	0.933	43	1.034	0.964
5	5	1.043	0.955	0.916	42.5	1.043	0.955
6	6	1.051	0.946	0.9	42	1.051	0.946
7	7	1.059	0.937	0.885	41.5	1.059	0.937
8	8	1.067	0.928	0.869	41	1.067	0.928
9	9	1.075	0.918	0.854	40.5	1.075	0.918
10	10	1.083	0.909	0.839	40	1.083	0.909
11	11	1.091	0.9	0.824	39.5	1.091	0.9
12	12	1.099	0.89	0.81	39	1.099	0.89
13	13	1.107	0.88	0.795	38.5	1.107	0.88
14	14	1.114	0.871	0.781	38	1.114	0.871
15	15	1.122	0.861	0.767	37.5	1.122	0.861
16	16	1.129	0.851	0.754	37	1.129	0.851
17	17	1.137	0.841	0.74	36.5	1.137	0.841
18	18	1.144	0.831	0.727	36	1.144	0.831
19	19	1.151	0.821	0.713	35.5	1.151	0.821
20	20	1.158	0.811	0.7	35	1.158	0.811

FIG. 2

EP 0 564 196 A2

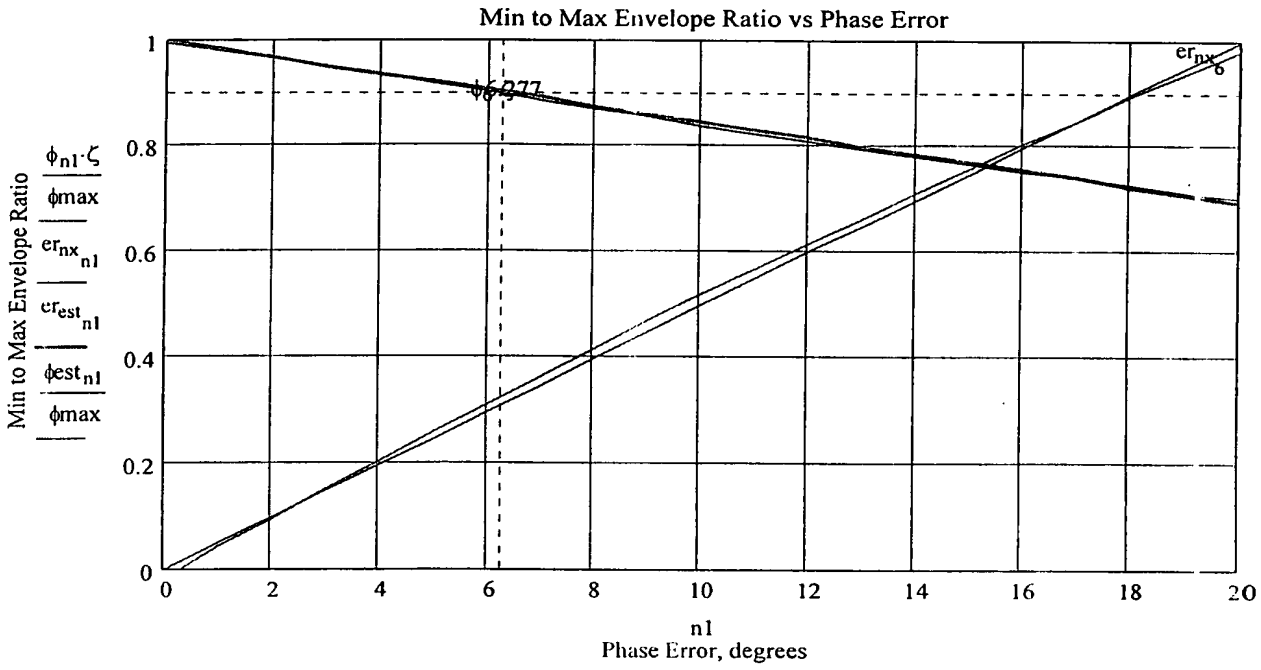

FIG. 3

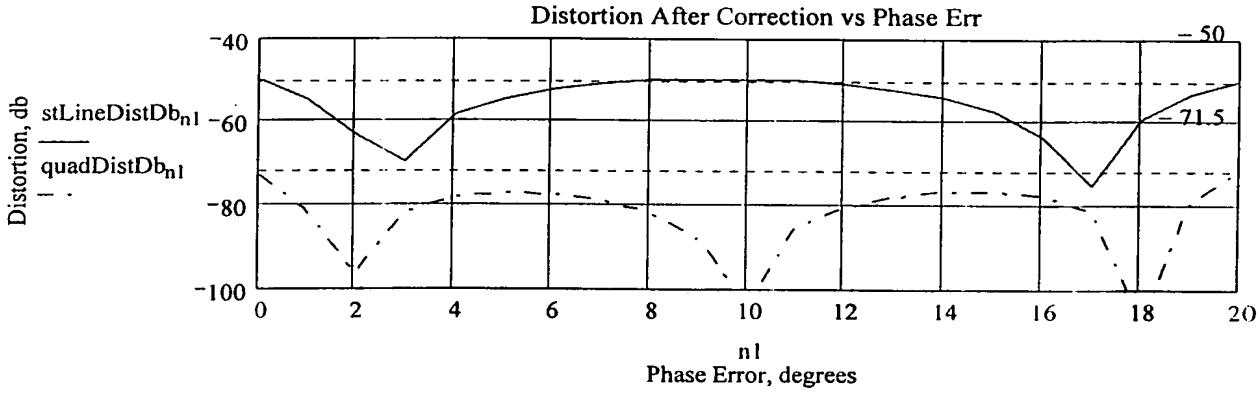
Distortion After Correction vs Phase Err
Distortion, db
stLineDistDb$_{n1}$
quadDistDb$_{n1}$
-40
-60
-80
-100
0
2
4
6
8
10
12
14
16
18
20
n1
Phase Error, degrees
-50
-71.5

FIG. 4

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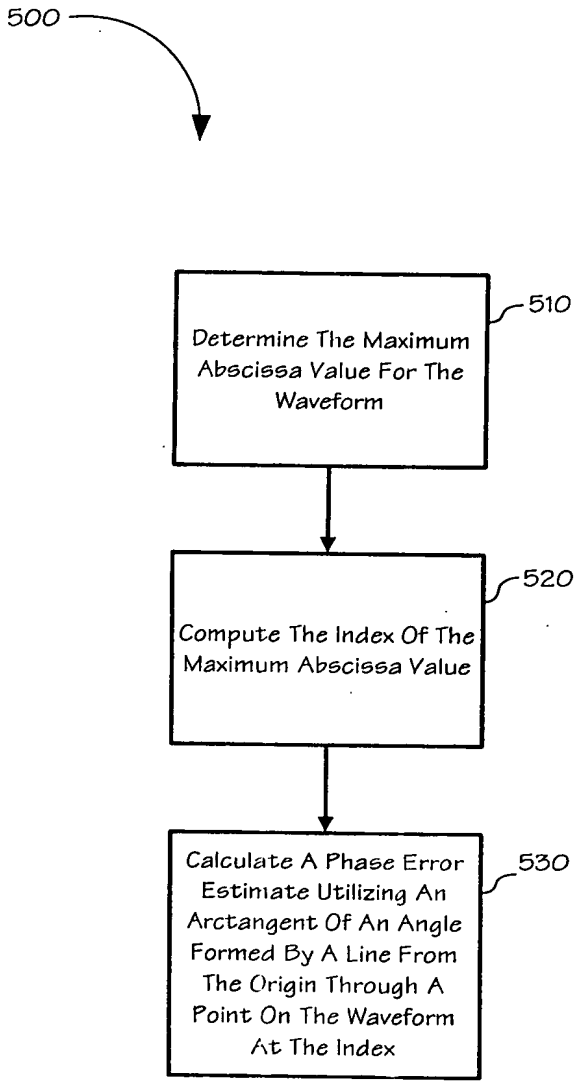

FIG. 5

0808480 - 07.04.08

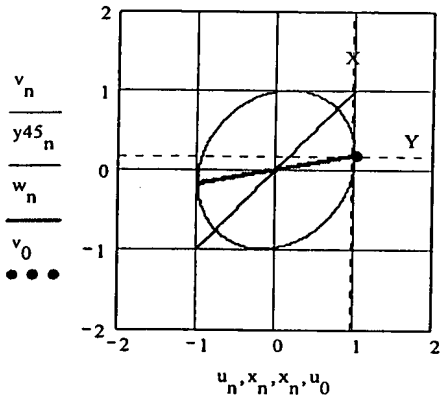

FIG. 6

0838460 - 0510

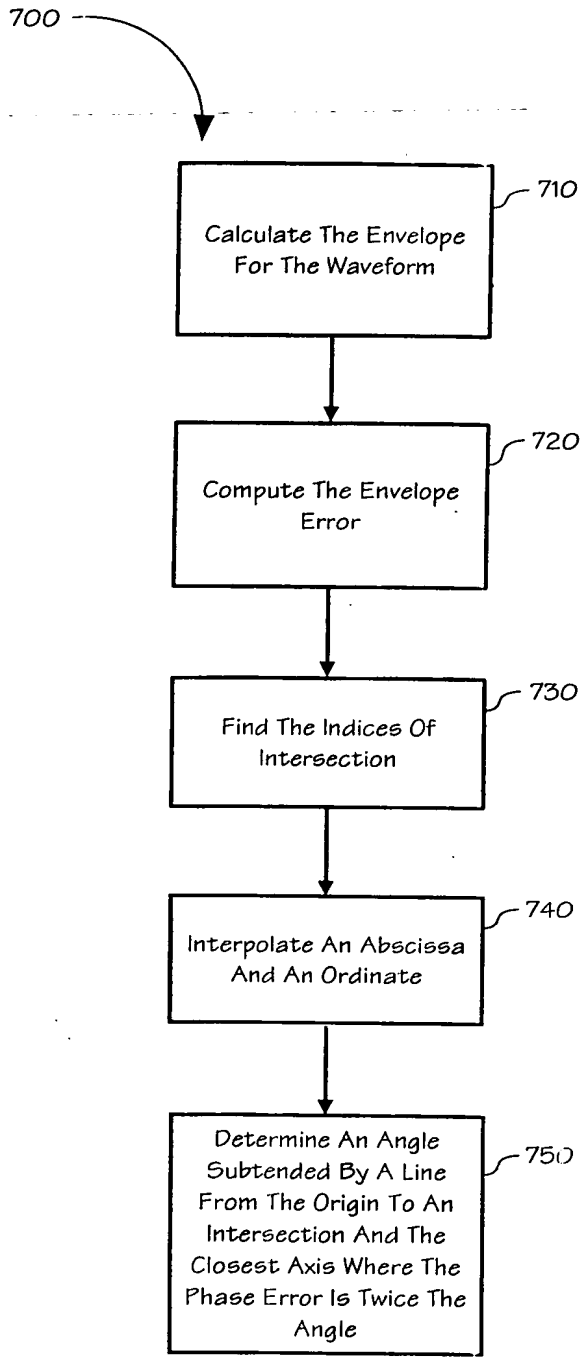

FIG. 7

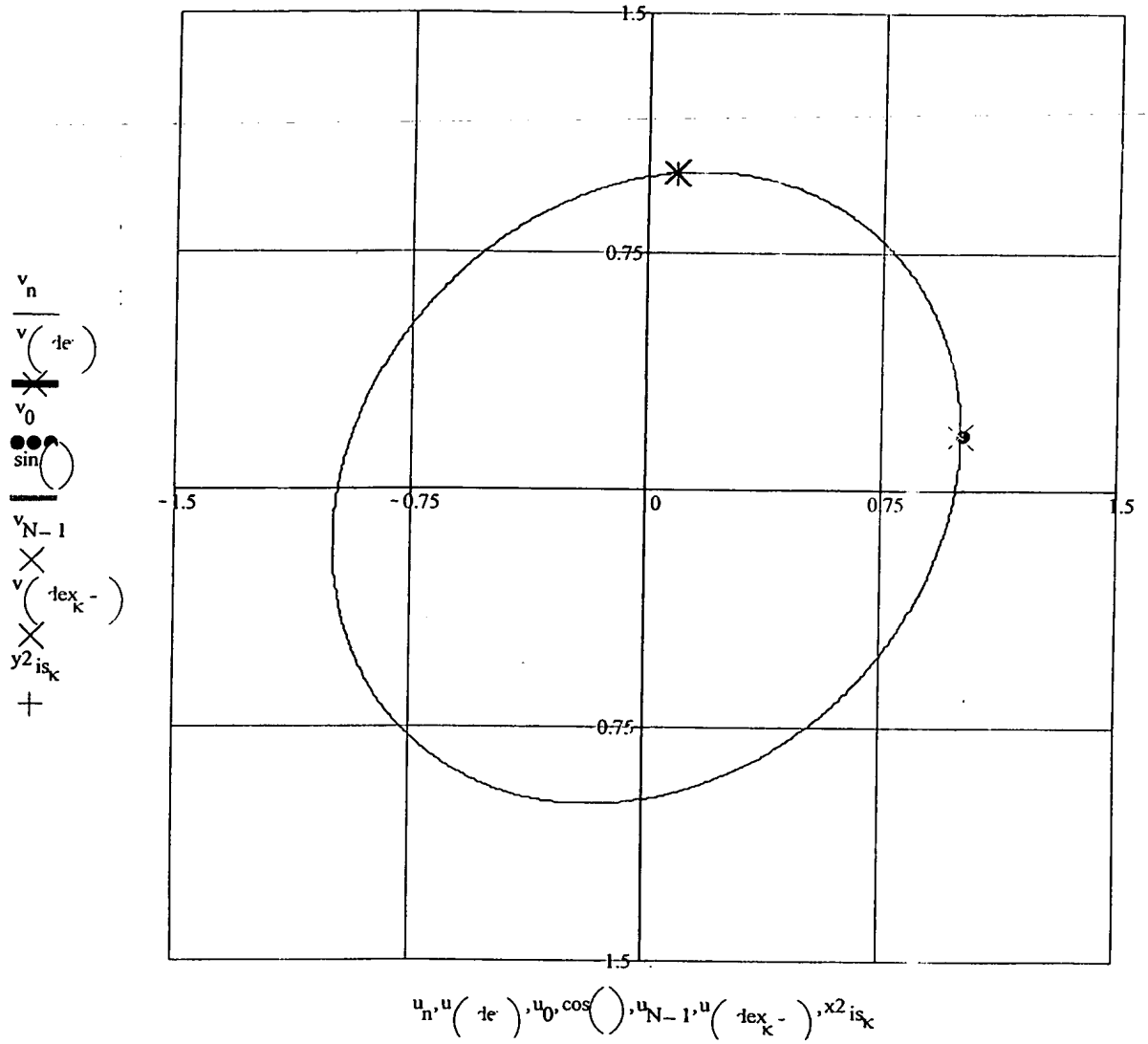
1.5
0.75
-1.5
-0.75
0
0.75
1.5
-0.75
-1.5
v_n
v_0
sin
v_{N-1}
$y2 is_k$
$u_n, u(\ ), u_0, \cos(\ ), u_{N-1}, u(\ ), x2 is_k$

FIG. 8